

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/N02004/000394

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61K49/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, EMBASE, CHEM ABS Data, BIOSIS

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/055566 A1 (LUIKEN, M.D. GEORGE A ET AL) 27 December 2001 (2001-12-27) paragraphs '0015! - '0017!, '0033! - '0038! tables claims 1-4 See table 2: "prostate cancer"	1-3,7-13
X	WO 01/91805 A (BRACCO RESEARCH USA; VON WRONSKI, MATHEW, A; MARINELLI, EDMUND, R; NUN) 6 December 2001 (2001-12-06) page 3, line 29 - page 4, line 28 sentences 10-21 See page 97, "BRU-317"; page 103, "BRU-326"; page 114, "BRU-346", page 120, "BRU-239". claims 1,10,47-51	1-3,5-8



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

4 May 2005

Date of mailing of the international search report

25/05/2005

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No

PCT/N02004/000394

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 98/47541 A (NYCOMED IMAGING AS; COCKBAIN, JULIAN, RODERICK, MICHAELSON; KLAVENESS,) 29 October 1998 (1998-10-29) See page 5, lines 1-4: vascular endothelial growth factors. page 70, paragraph 3 - page 86, paragraph 3 claims 1,4 page 11, last line See page 11, 12 "prostate cancer"</p>	1-3,5-8
X	<p>MARCHI-ARTZNER, VALERIE ET AL: "Adhesion of Arg-Gly-Asp ( RGD ) Peptide Vesicles onto an Integrin Surface: Visualization of the Segregation of RGD Ligands into the Adhesion Plaques by Fluorescence" LANGMUIR , 19(3), 835-841 CODEN: LANGD5; ISSN: 0743-7463, February 2003 (2003-02), XP002326372 the whole document</p>	1-3,5-7
X	<p>EP 0 800 831 A (DAIICHI PURE CHEMICALS CO. LTD; DAIICHI PURE CHEMICALS CO., LTD) 15 October 1997 (1997-10-15) page 2, line 50 page 7, line 37 example 12 page 17, lines 27-49 claim 1</p>	1,3
X	<p>WO 00/71162 A (MALLINCKRODT INC) 30 November 2000 (2000-11-30) page 1, line 28 - page 2, line 2; claims page 5, line 4 figures 1C-D examples 10,13 See page 6, line 27 and page 11, lines 1-5: "bombesin analogs".</p>	1-8
Y	<p>ACHILEFU S ET AL: "NOVEL RECEPTOR-TARGETED FLUORESCENT CONTRAST AGENTS FOR IN VIVO TUMOR IMAGING" INVESTIGATIVE RADIOLOGY, PHILADELPHIA, PA, US, vol. 35, no. 8, 2000, pages 479-485, XP000978923 the whole document</p>	1-13

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NO2004/000394

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/61194 A (INSTITUT FUER DIAGNOSTIKFORSCHUNG GMBH AN DER FREIEN UNIVERSITAET BERL) 19 October 2000 (2000-10-19) page 1, paragraph 1-3 page 3, paragraph 1-3 page 14, lines 13-30 claims 1,27	1-13
Y	WO 03/074450 A (THE UNIVERSITY OF TENNESSEE RESEARCH CORPORATION; DALTON, JAMES; MILLE) 12 September 2003 (2003-09-12) paragraph '0010! claims 1,23-27 claim 40	1-13
Y	TANG HAILUN ET AL: "Prostate targeting ligands based on N-acetylated alpha-linked acidic dipeptidase." BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 18 JUL 2003, vol. 307, no. 1, 18 July 2003 (2003-07-18), pages 8-14, XP002327104 ISSN: 0006-291X the whole document	1-13
Y	REITER R E ET AL: "Prostate stem cell antigen: a cell surface marker overexpressed in prostate cancer." PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 17 FEB 1998, vol. 95, no. 4, 17 February 1998 (1998-02-17), pages 1735-1740, XP002327105 ISSN: 0027-8424 the whole document	1-13
A	WO 01/89584 A (NYCOMED IMAGING AS; KLAVENESS, JO; TOLLESHAUG, HELGE; AMERSHAM HEALTH) 29 November 2001 (2001-11-29) page 21, paragraphs 2,3; claims; example 1 figure 2	4
E	WO 2005/002293 A (VANDERBILT UNIVERSITY; MARNETT, LAWRENCE, J; TIMOFEEVSKI, SERGEI; PRUD) 6 January 2005 (2005-01-06) page 50, line 30 examples claims 1,58 See compounds 3, 18, 19, 24, 25.	1-4,6-13

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# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NO2004/000394

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2005/030266 A (AMERSHAM HEALTH AS; KLAVERNESS, JO; JOHANNESSEN, EDVIN; TOLLESHAUG, HELG) 7 April 2005 (2005-04-07) claims; examples	1-8
E	WO 2005/019247 A (BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM; LI, CHUN; KE, SHI; W) 3 March 2005 (2005-03-03) page 14, lines 1-5; figure 18 page 44, line 8 - page 45, line 14	1-13
P,X	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; JONES, GRAHAM B. ET AL: "PSA Activated prodrugs as prostatic imaging agents" XP002327106 retrieved from STN Database accession no. 2004:226702 abstract & ABSTRACTS OF PAPERS, 227TH ACS NATIONAL MEETING, ANAHEIM, CA, UNITED STATES, MARCH 28-APRIL 1, 2004, MEDI-344 PUBLISHER: AMERICAN CHEMICAL SOCIETY, WASHINGTON, D. C. CODEN: 69FGKM, 2004,	1-13
X	WO 99/58161 A (THE GENERAL HOSPITAL CORPORATION) 18 November 1999 (1999-11-18) page 2, lines 17-31 page 11, lines 5-33 claims	1,3-13
E	WO 2005/003166 A (AMERSHAM HEALTH AS; CUTHBERISON, ALAN; INDREVOLL, BAARD; SOLBAKKEN, MA) 13 January 2005 (2005-01-13) page 1, lines 4-10 page 2, line 25 page 6, lines 29-33 claims 1,12,13	1-13

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/N02004/000394

### Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 10-13 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Information on patent family members

International Application No

PCT/N02004/000394

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